

Tiling in Lake County, South Dakota

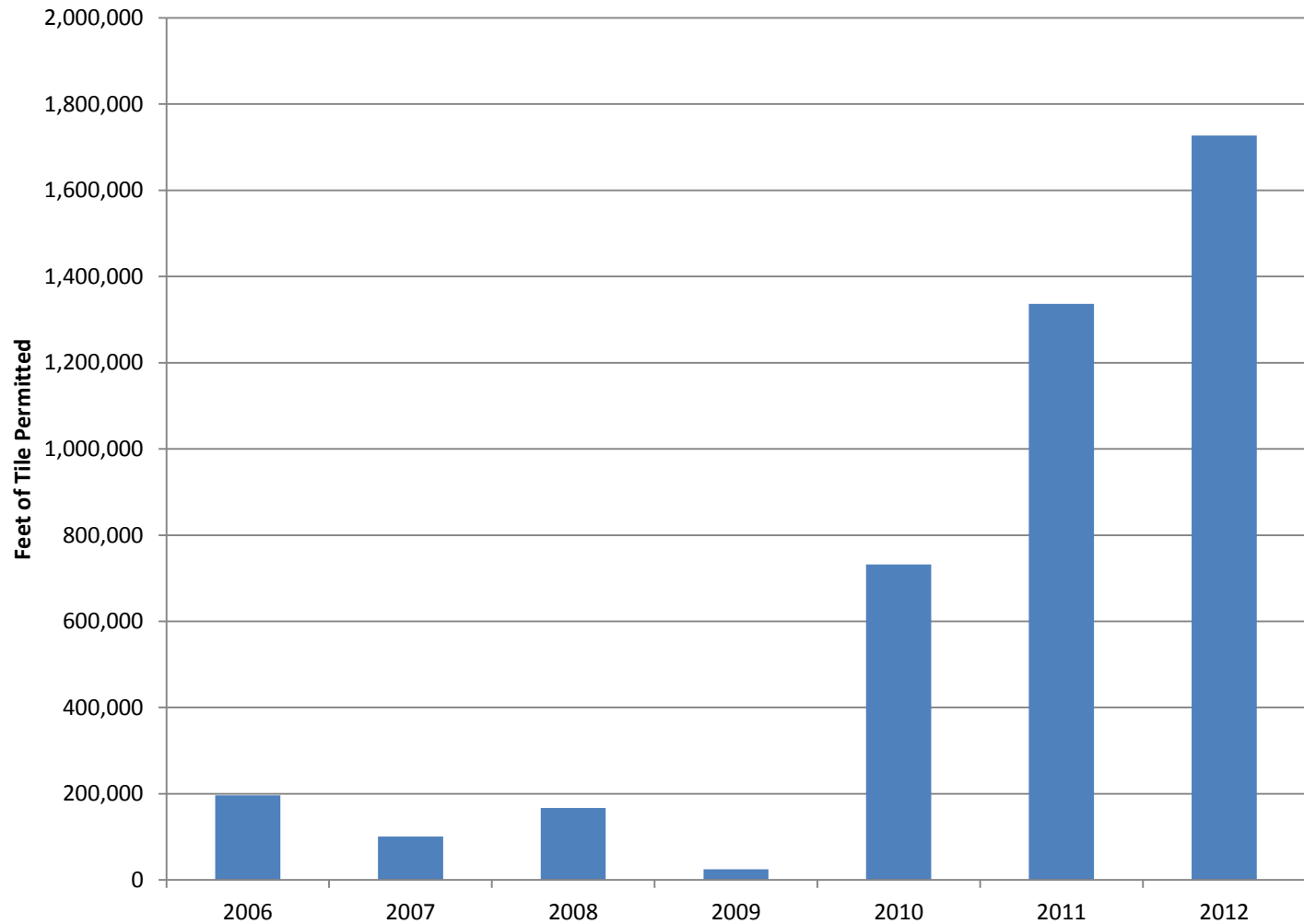
**John Maursetter
Environmental Specialist**

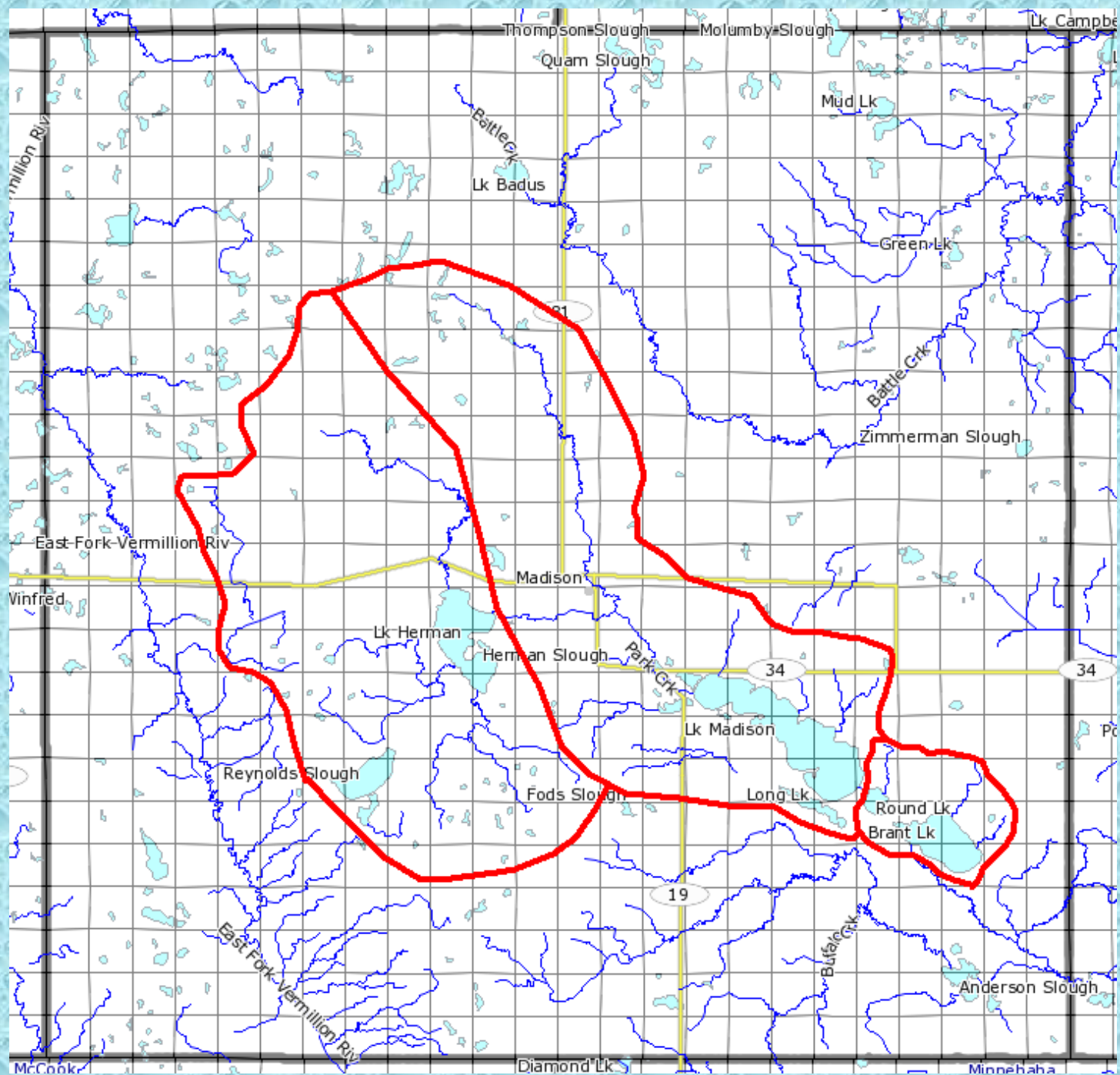


LAKE COUNTY

- POPULATION: 11,771
- AREA: 563.28 SQUARE MILES
- FEET OF TILE PERMITTED SINCE 2006: 4,578,080 OR ABOUT 867 MILES (AS OF MAY)
- ECONOMIC BASE
 - AGRICULTURE
 - RECREATION — CAMPING, BOATING, FISHING, HUNTING
- LAKE MADISON CHAIN

Feet of Tile Permitted, by Year, Lake County, South Dakota 2006 - 2012





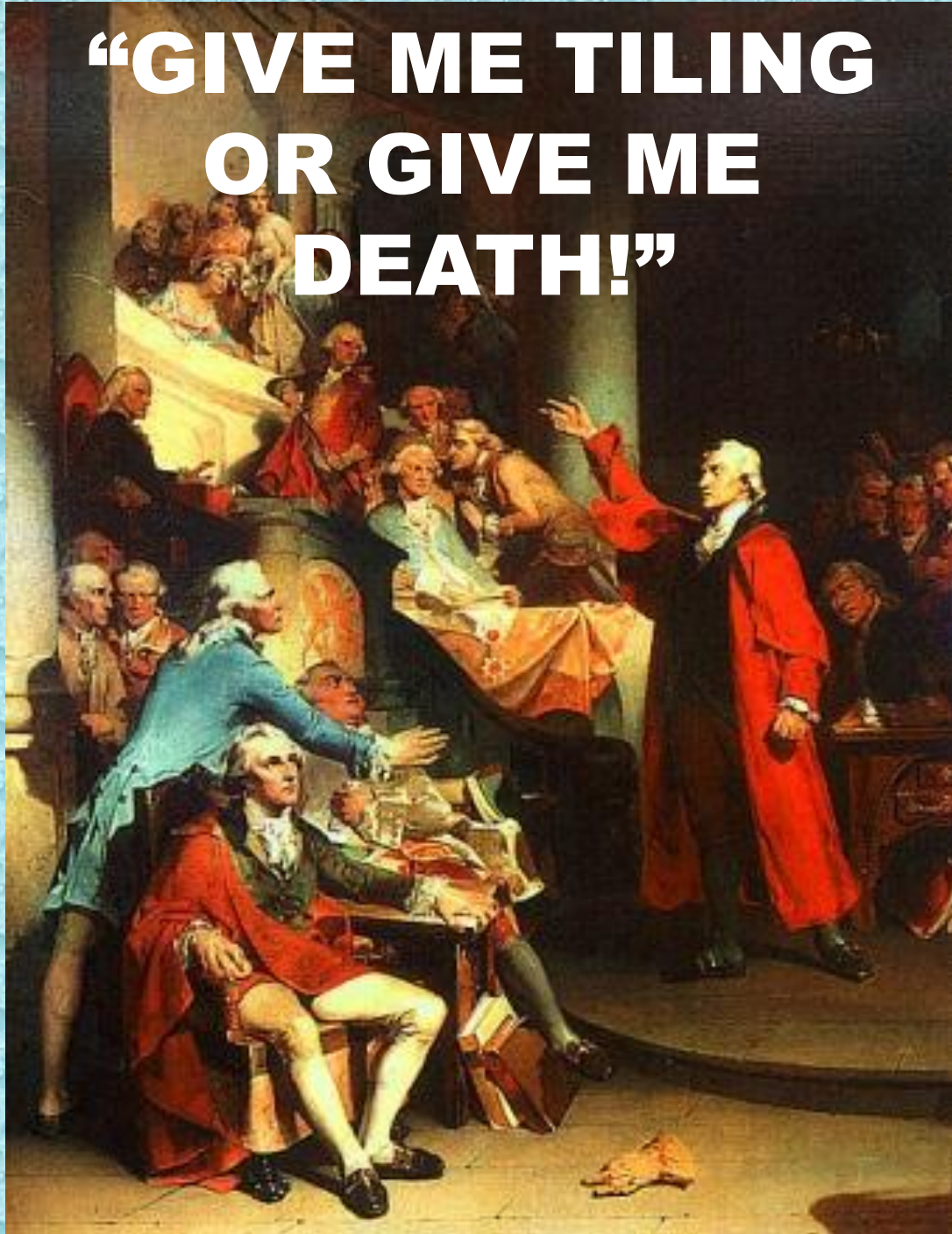
My Duties

- Review Drainage Permits
- Complaints – Nuisance, Drainage
 - Usually two (or more) upset individuals with opposite views
 - Compromises made
 - Violations corrected
 - Communication



DON'T TILE ON ME

**“GIVE ME TILING
OR GIVE ME
DEATH!”**



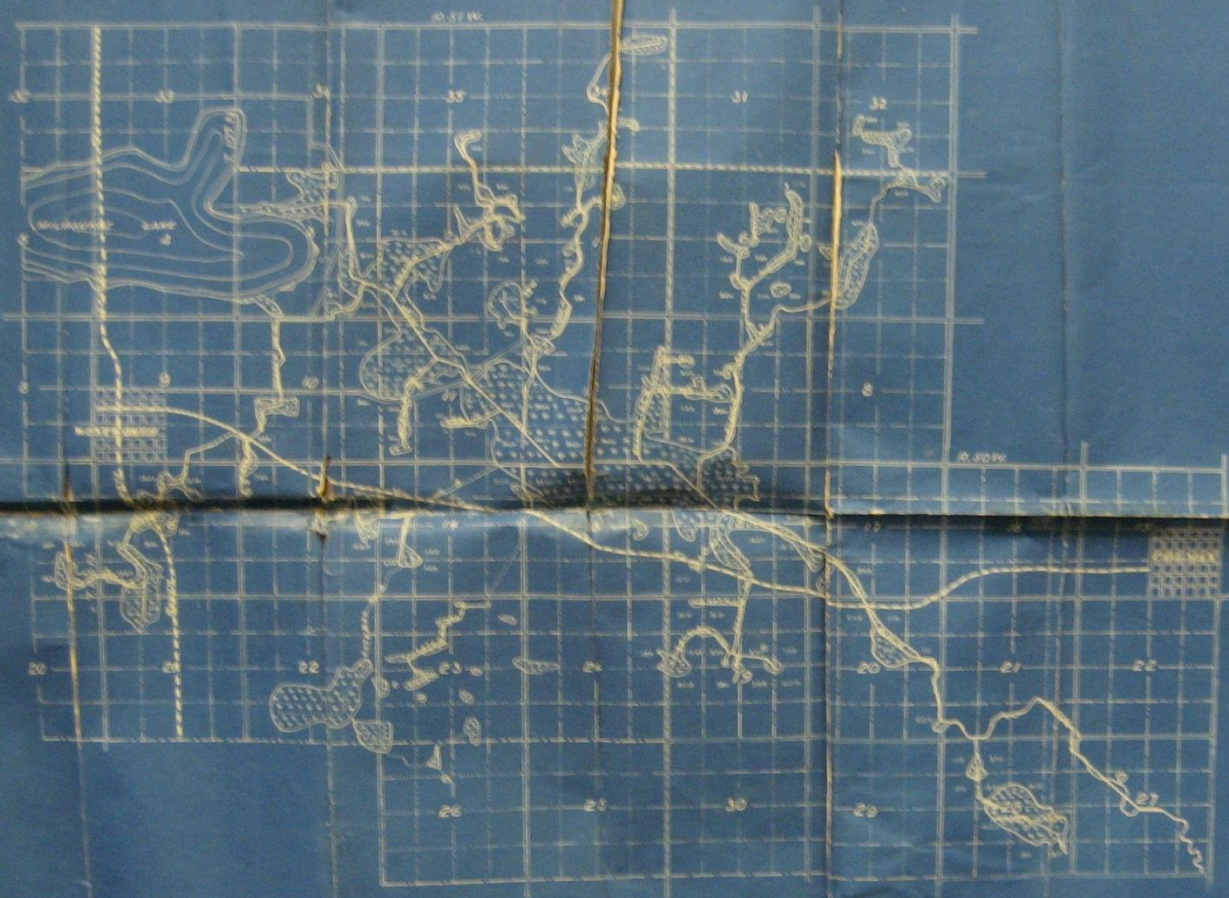
GOALS OF THIS PRESENTATION

- Drainage in the Past and Present
 - What can we learn?
- Overview of Lake County Drainage Ordinance
- “Walk Through” Permitting Process
- Discuss What Works, What Doesn’t
- Suggest Possible Solutions





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LAKE-MOODY COUNTY JOINT DITCH NO. 1

IN
LAKE AND MOODY COUNTIES
SOUTH DAKOTA

ONE A. THOMAS
DRAINAGE ENGINEER
MURFREESBORO, TENN.

2002 DRAINAGE ORDINANCE

LAKE COUNTY SOUTH DAKOTA

Adopted: July 16, 2002

Updated: November 18, 2003

(Section 2.04.1 & 2.05)

Amendment: November 4, 2004

(Section 5.05)

Updated: December 6, 2005

(Section 5.05)

Drainage Ordinance Overview

- Similar to other ordinances in the state
 - No undue burden on your downslope neighbors.
 - Follow natural drainage.
 - Cannot drain from one watershed to another.
 - Permit must be filed and approved.
 - Maintenance of existing systems also need permits.
 - Downstream landowners must be notified.
 - Provisions for complaints and hearings.
 - Drainage Officer and Drainage Board act as mediators.

Drainage Ordinance Overview 2

- County Water Quality Committee
 - Unique to Lake County
 - Advisory committee to Commissioners
 - Discusses County Water Issues and Solutions
 - Review Drainage Ordinance

The Permitting Process

| LAKE COUNTY DRAINAGE PERMIT APPLICATION | | |
|--|---------------------------|--------------|
| <input type="checkbox"/> New Drainage <input type="checkbox"/> Maintenance | | |
| <i>This becomes your permit when properly validated by a Lake County Official.</i> | | |
| A. Owner and Property Information | | |
| Property Owner: _____ | | |
| Address: _____ | | |
| Home Phone: _____ | Cell: _____ | |
| Legal description of land to be drained: _____ | | |
| Section: _____ | Township: _____ | Range: _____ |
| B. Description of Proposed Project | | |
| Type of Project: _____ Ditch _____ Tile | Site Plan: _____ Attached | |
| Location of outlet end of proposed drain: _____ | | |
| Name (if any) of any watercourse, lake, slough, draw, natural drain-way, stream, creek, river, drain or ditch that is involved in this application: _____ | | |
| Approximate size in acres of area being drained: _____ | | |
| Proposed drainage ditch: a. Length of drain: _____ feet b. Drain design: 1) Bottom width: _____ feet 2) Side slope: _____ percent 3) Maximum cut: _____ feet c. Proposed drainage flow _____ cu. ft./sec. | | |
| Proposed drainage tile (underground drain pipe): a. Length of drain: _____ feet b. Drain diameter: _____ inches c. Approximate area contributing runoff to the drain where drain tile is located: _____ acres d. Pipe will be solid or perforated: _____ | | |
| Other types of drainage: (please explain) _____ _____ _____ | | |

The Permitting Process 2

- Applicant provides copy of NRCS paperwork – CPA-026 wetland determination.
- Applicant provides map with tile – sizes and lengths, outlet size and location.
- Permit is filled out - 160 acres maximum per permit.
- Land is located on map and downstream landowners are determined.
- Applicant given acknowledgment form(s) for downstream landowners (1 mile downstream).

Acknowledgement Form

Acknowledgment of Performing Drainage Work Lake County, South Dakota

I, _____ the downstream landowner, am aware of the proposed drainage work being proposed by _____, the upstream owner/tenant in the _____ and do not object to the drainage as proposed. Does the landowner authorize the tenant to sign this acknowledgement?

Additional Notes:

Dated this _____ day of _____, 20____

Signature

Address

City, State & Zip

Phone

The Permitting Process 3

- Signatures are collected by applicant.
- If no signatures are collected, or someone objects, then it goes to Drainage Board.
- Permit Fee is collected - \$50 per quarter section. Hearings involve additional fees.
- Completed application is reviewed.
- Approved permits have 1 year to commence work.

What Works, What Doesn't

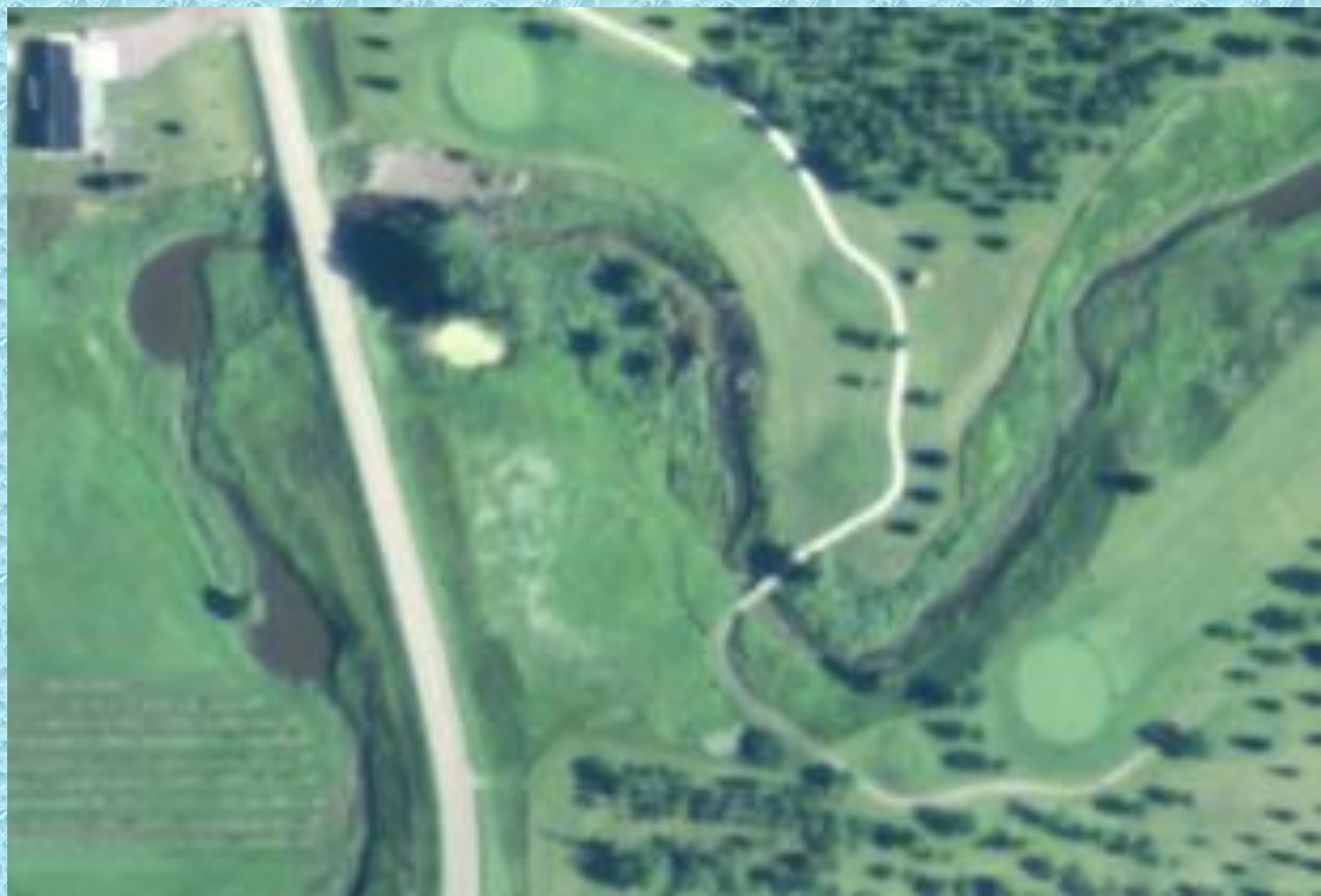
- What Works:
 - Fosters Communication Between Neighbors.
 - Record of Installed Tile.
 - Mediation has been very successful.
- What Doesn't:
 - Need More Information on the Impacts of Drainage Downstream.
 - Enforcement is long and complicated.

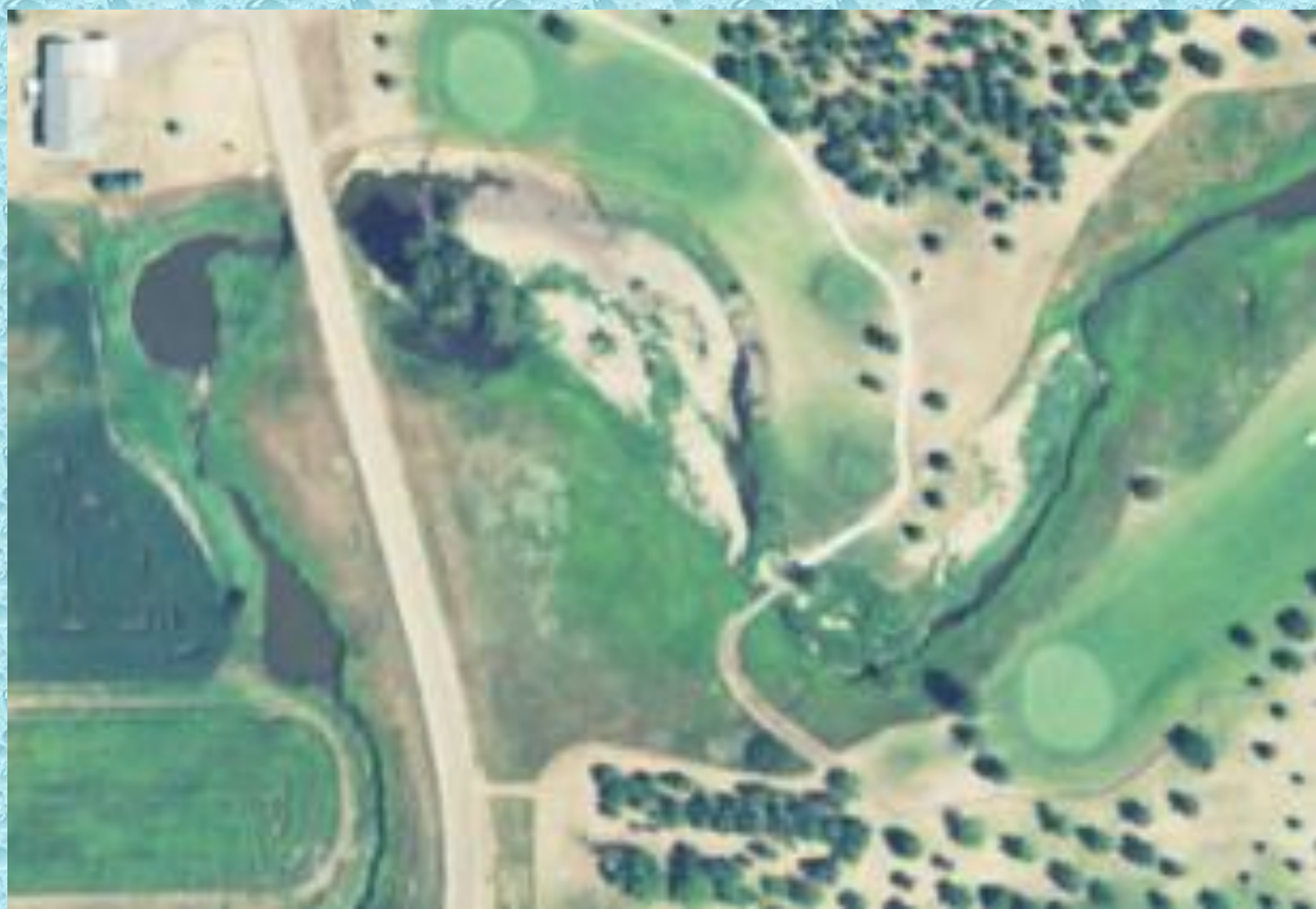
Suggestions

- Needs to be paid for in a way that does not burden counties or farmers.
- Does “Undue Burden” include the sediments and contaminants contained in the water?
- What can be done to help reduce the impact of extreme events?



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Conclusions

- Logical, common-sense revisions to the laws.
- Provide counties with more information for review.
 - Regional/Watershed based technical support.
- Consistent permitting process throughout the state.
- Counties need protection – State can provide this.

The Tribune
Prints the News

HiLo Tribune.

We Lead—
Others Follow

VOL. 10.

HILO, HAWAII, HAWAIIAN ISLANDS, TUESDAY, FEBRUARY 28, 1905.

No. 18.

CONTROVERSIAL "TILE-GATE" HEARINGS CONTINUE!

**WATER BALLOONS THROWN!
- 11 BYSTANDERS GET WET**

**Police Break Out
Tasers and Towels**

The HiLo Tribune.

PUBLISHED EVERY TUESDAY

OFFICE, KING STREET, - HILO, HAWAII

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Advertisements accompanied by specific
instructions inserted will be charged on.

Mortgagee's Notice of Intention to Foreclose.

Notice is hereby given by the undersigned that by virtue of the power of sale contained in a certain mortgage made, executed and delivered by Aleck Johnson and Helene M. Johnson, his wife, on October 26th, 1903, to J. L. Carter, which said mortgage is recorded in the office of the Registrar of Conveyances in Honolulu, in Liber 214, on

LATER—Just as the TRIBUNE goes to press a telephone message from the Volcano House brings the news of renewed activity, more grand if possible than before. Parties returning from the crater report that the fire has burst through the landslide which choked the lava flow and a magnificent fountain is playing continuously, the extent of the opening in the side wall being 250 feet in length by 100 feet in width.

Postmaster Pratt Confirmed.

Washington, D. C., Feb. 23.—J. G. Pratt has been confirmed as Postmaster of Honolulu. He qualifies here.

Latest Sugar Quotations.

Honolulu, Feb. 27.—96° Test Centrifugals, 5.0625c; per ton \$101.25.
88 Analysis Beets, 15s. 4½d.; per ton \$106.80.

Fire At New Orleans.

QUESTIONS???